

Meyer 3310 Department of Animal Science, UC Davis	Doc. No	HZ-SOP-050
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Materials Needed:

Surgical scissors, tweezers, surgical blades, and scalpels
 70% ethanol bottles
 RNase away bottles
 RNA-Later
 Gloves
 Markers
 Ziplock bags
 Plastic Petri Dishes
 Waste bags
 Aluminum Foil
 1.5mL Tubes
 Shoe Covers
 Disposable Lab Coat
 Paper Towels
 Liquid Nitrogen
 Ziplock Bags
 Cardboard boxes for storing tubes

Preparation:

- 1.5 mL tubes filled with 1mL of RNA-Later and labelled with ID
- Aluminum Foil cut into rectangular pieces appropriate for folding tissue 2x and labelled with ID
- Styrofoam box filled with liquid nitrogen
- Ziplock bags labelled with animal IDs for foil collection
- Petri Dishes labelled with tissue section to be dissected and collected

Tissue Collection Protocol

1. Slaughter team will provide a section of organ tissue on petri dish.
2. Place tubes and foils of correct animal ID.
3. Before collecting frozen tissue in aluminum foil, spray and wipe RNase Away on foil.

4. Quickly cut tissue into small pieces enough to be surrounded by RNA-Later in tube and for frozen tissue samples in foil.
5. Frozen samples to be **immediately** in liquid nitrogen and place RNA-Later samples on tube rack (to be kept in 4C overnight then placed in -20C).
6. Ethanol spray surgical tools before next tissue.

After tissue collection:

1. Check and inventory tissue samples.
2. Store RNA-Later samples in -20C fridge after 4C overnight.
3. Store frozen samples in -80C fridge.